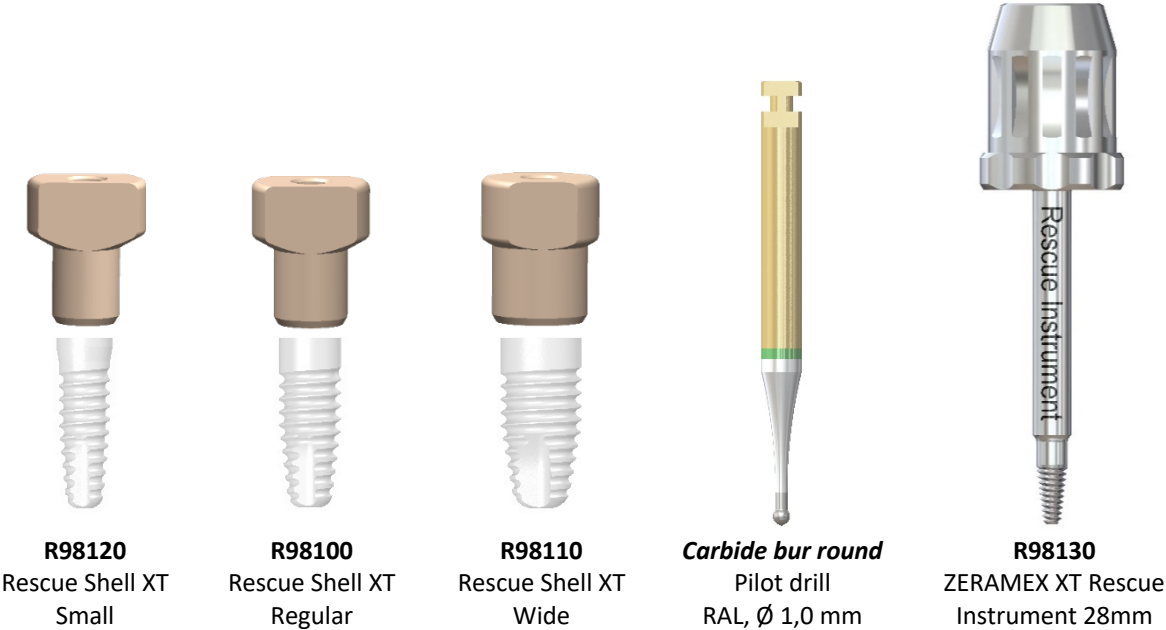


Rescue Manual

Zeramex XT Rescue Set



The Zeramex XT Rescue Set is a set of instruments designed to remove a broken or worn abutment screw.

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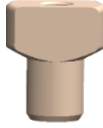
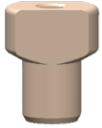





 Precautions: 7

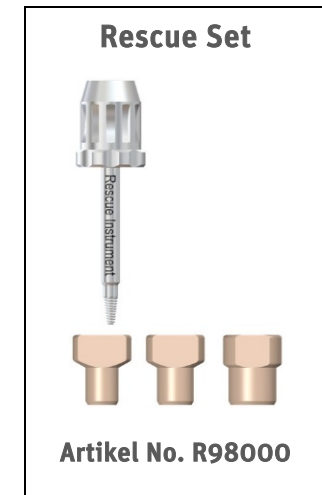
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Rescue Set – Product Overview

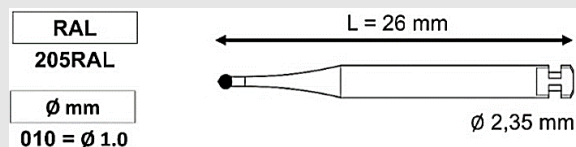
	Drilling pilot hole				Screw removal		Thread cleaner
							
Included in Rescue Set	yes	yes	yes	Please note: Not included in the Rescue Set	yes	Please note: Not included in the Rescue Set	Please note: Not included in the Rescue Set
Article No.	R98120	R98100	R98110	*Pilot Drill	R98130	P48935	Interdental brush
Name	Rescue Shell XT Small	Rescue Shell XT Regular	Rescue Shell XT Wide	*Pilot Drill	Rescue Instrument 28mm	Surgical Ratchet	Interdental brush (e.g. from Peridenta Care)
Material	PEEK	PEEK	PEEK	n/a	Stainless steel	Stainless steel	Nylon brush



 The electronic Instructions for Use for our products are available at ifu.zeramex.com

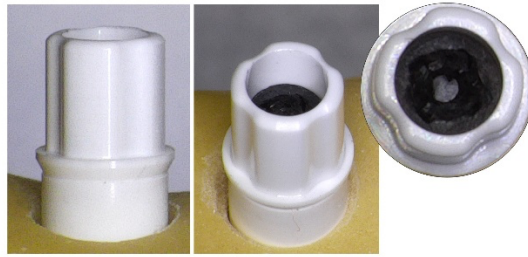
*Pilot Drill - Not included in the Rescue-Set. Specification:

Item: Standard Carbide Bur/Drill
Tip Type: Round burr, \varnothing 1,0 mm (O10)
Shank Type: Right Angle Long (RAL) or (RAXL)
Shank: RAL (or longer)



e.g. Komet item No. [H1SEM.205.010](#) / Meisinger USA - [HM1S-023-RAL](#)

Case 1: Removal of a worn Vicarbo screw through the abutment



Depth marking of the drill

Provide a pilot drill according to the specification on page 2.

[1] Guide the Pilot drill into the Abutment until it reaches the end position and mark [2] the shaft of the drill with a waterproof pen.

Remove the drill bit and mark a line 3-3.5mm above the first mark [3], to visualize the final position of the drilling depth.

Hint: The drilling depth corresponds to the Rescue Instrument thread length.

Drill (Pilot hole 3.5mm)

Insert the Pilot drill into the handpiece.

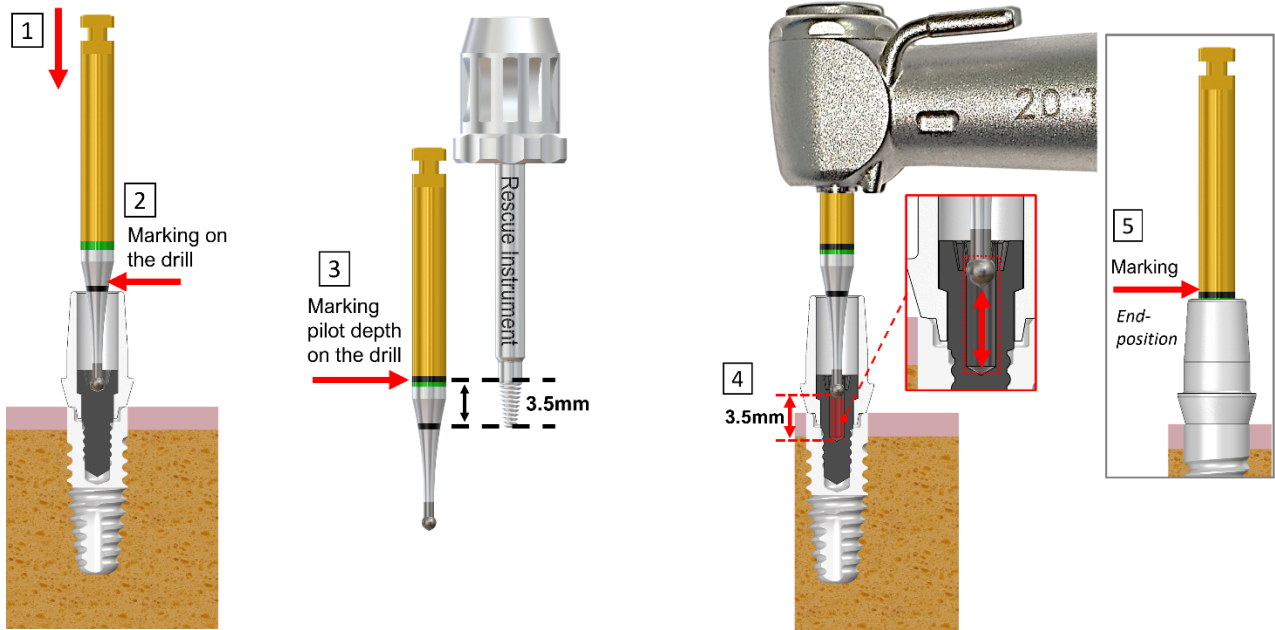
[4] Guide the Pilot drill through the abutment. Drill a 3-3.5mm deep pilot hole exactly in the center of the screw at a speed of 1,000 rpm intermittently and with as little pressure as possible.

The drilling process is complete when the marking [5] is flush with the top of the abutment chimney.

CAVE: Always use a new pilot drill for each pilot hole.

Note: Use a dental dam if suctioning the particles is not sufficient.

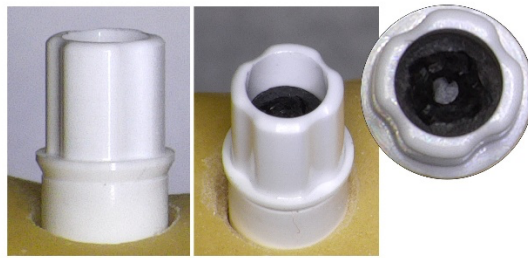
🔄 opt. 1'000 rpm



Pilot drill (e.g. Komet item No. [H1SEM.205.010](#)
Meisinger USA - [HM1S-023-RAL](#))

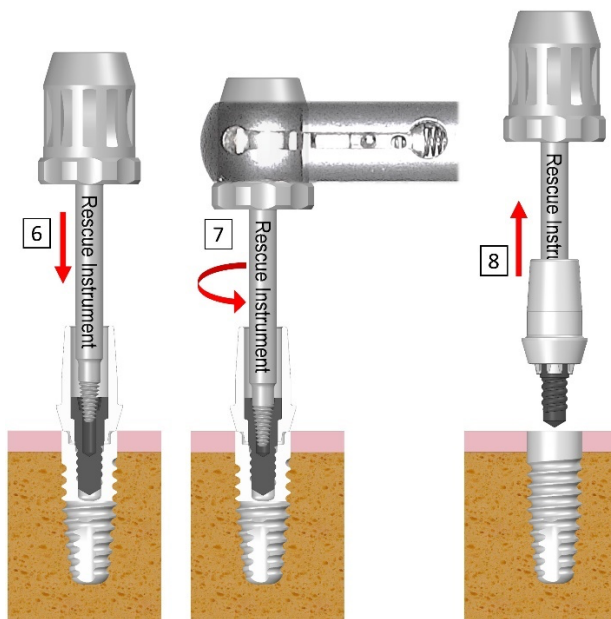
Tip: The drilling process is simplified by applying slight pressure and pulling the drill bit out again. Ensure centric drilling.

Case 1: Removal of a worn Vicarbo screw through the abutment



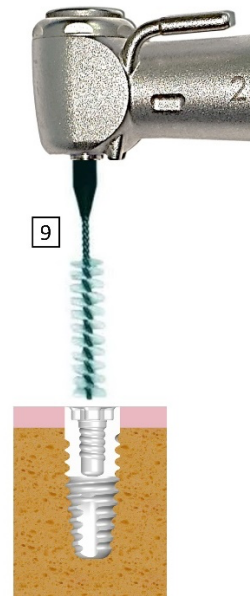
Screw removal

[6] Guide the Rescue Instrument into the pilot hole of the screw and turn the adapter by hand or ratchet [7] to the left (counterclockwise) while maintaining pressure until the screw is removed [8].



Cleaning

Clean the interior of the implant with the cleaning brush [9] and handpiece. Make sure that there are no black residues in the implant. A rotating interdental brush (e.g. from Peridenta Care¹) with the contra-angle handpiece is recommended for cleaning.

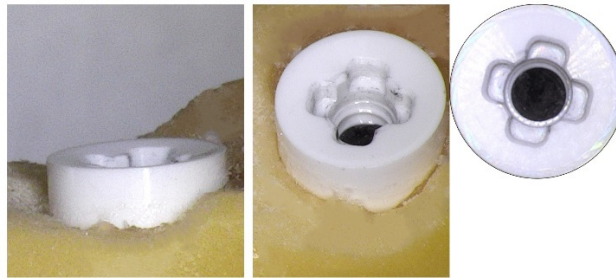


If the screw cannot be removed

1. Check the Rescue Instrument thread for signs of wear as shown in the illustration in the last chapter.
2. If the Rescue Instrument fails to engage with the screw-/fragment repeat the drilling step while making sure that the pilot hole is centric and sufficiently deep. The pilot hole can also be drilled without the Rescue Shell if it is considered to be an obstacle and you have a clear view of the fragment.
3. If the fragment still cannot be removed by the Rescue Instrument, the pilot drill can be used to drill out the entire fragment as a last resort. Make sure that adequate cooling is provided.

¹ Not included in set.

Case 2: Removal of a fractured Vicarbo screw



Depth marking of the drill

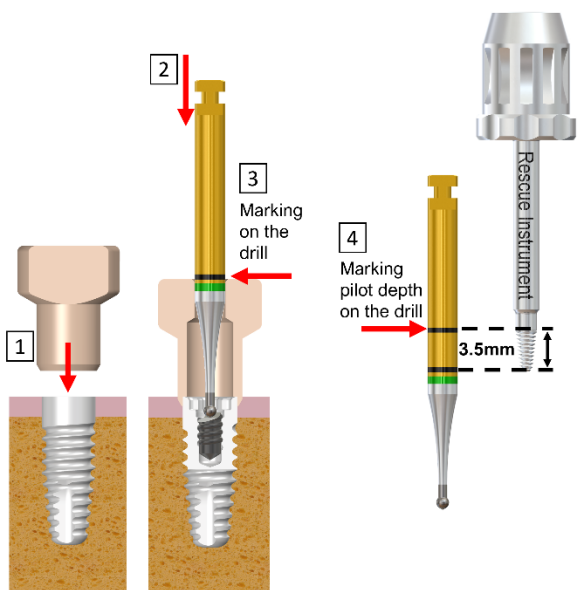
Provide a pilot drill according to the specification on page 2.

[1] Place the Rescue Shell Small, Regular or Wide on the corresponding implant and make sure it is seated securely. A light-cured composite (e.g. primo pattern LC) can be used to fix the Rescue Shell in connection with the adjacent teeth.

[2] Guide the Pilot drill into the Rescue shell until it reaches the end position and [3] mark the shaft of the drill with a waterproof pen.

[4] Remove the drill bit and mark a line 3-3.5mm above the first mark, to visualize the final position of the drilling depth. Hint: The drilling depth corresponds to the Rescue Instrument thread length.

Note: If the guide sleeve is perceived as an obstacle and the circumstances and circumstances allow a good view of the screw fragment, the centric pilot hole can also be drilled freehand.



Pilot drill (e.g. Komet item No. [H1SEM.205.010](#) Meisinger USA - [HM1S-023-RAL](#))

Drill (Pilot hole 3.5mm)

Insert the Pilot drill into the handpiece.

[5] Guide the Pilot drill through the Rescue Shell.

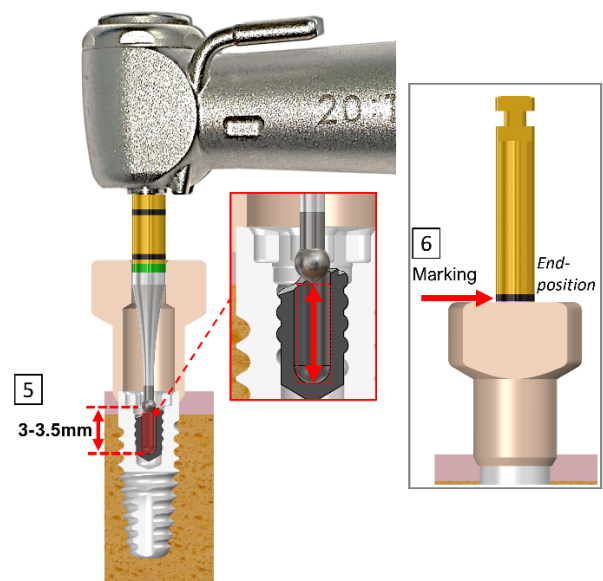
Drill a 3-3.5mm deep pilot hole exactly in the center of the screw at a speed of 1,000 rpm intermittently and with as little pressure as possible.

The drilling process is complete when the marking [6] is flush with the top plane of the Rescue shell.

Note: Use a dental dam if suctioning the particles is not sufficient.

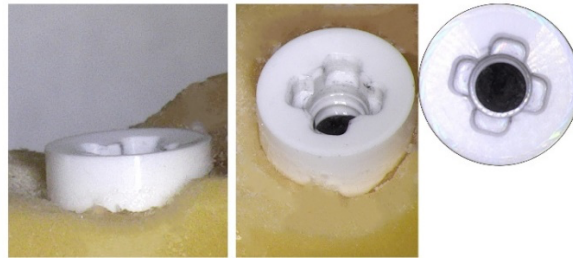
CAVE: Always use a new pilot drill for each pilot hole.

opt. 1'000 rpm



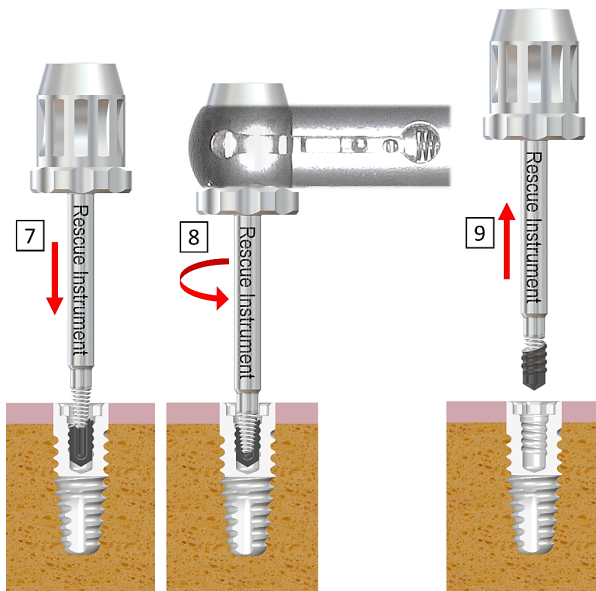
Tip: The drilling process is simplified by applying slight pressure and pulling the drill bit out again. Ensure centric drilling.

Case 2: Removal of a fractured Vicarbo screw



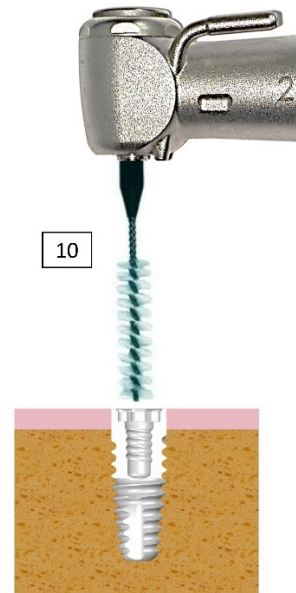
Screw removal

[7] Guide the Rescue Instrument into the pilot hole of the screw and turn the adapter by hand or ratchet [8] to the left (counterclockwise) while maintaining pressure until the screw is removed [9].



Cleaning

[10] Clean the interior of the implant with the cleaning brush and handpiece. Make sure that there are no black residues in the implant. A rotating interdental brush (e.g. from Peridenta Care²) with the contra-angle handpiece is recommended for cleaning.



If the screw cannot be removed

1. Check the Rescue Instrument thread for signs of wear as shown in the illustration in the last chapter.
2. If the Rescue Instrument fails to engage with the screw-/fragment repeat the drilling step while making sure that the pilot hole is centric and sufficiently deep. The pilot hole can also be drilled without the Rescue Shell if it is considered to be an obstacle and you have a clear view of the fragment.
3. If the fragment still cannot be removed by the Rescue Instrument, the pilot drill can be used to drill out the entire fragment as a last resort. Make sure that adequate cooling is provided.

² Not included in set.

General information

Precautions:

- Our products must be protected against aspiration when handled intraorally.
- Non-sterile packaged products must not be sterilized in their original packaging.

Sterilization

Devices delivered non-sterile must be cleaned and disinfected prior to use. Prior to processing, remove the packaging system from the product.

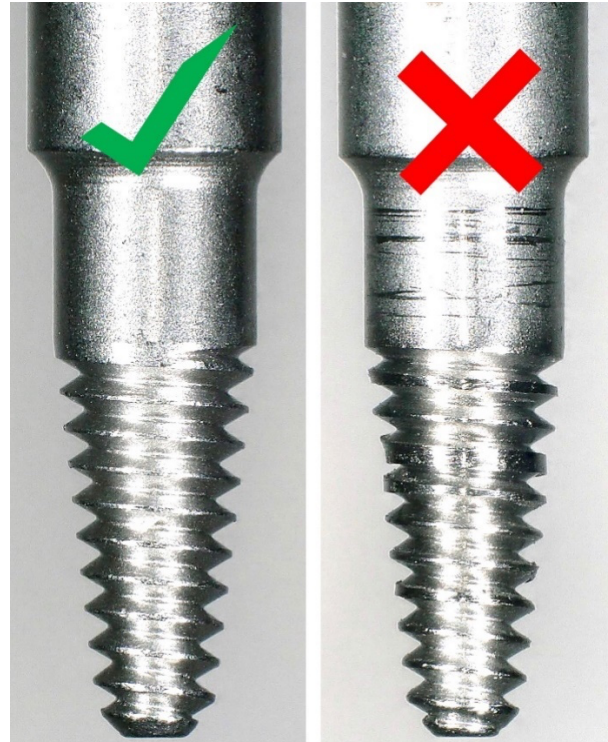
Devices delivered non-sterile must be sterilized prior to use. For further details on sterilization procedures, please consult the IFU online at ifu.zeramex.com

Removing the screw from the Rescue Instrument

To remove the screw from the Rescue Instrument, hold the screw in the threaded area with pliers and turn it clockwise with the ratchet.

Rescue instrument check prior to use

Check the thread for wear, especially on the lower half of the thread tip. Rescue instrument thread flanks with signs of wear, such as those on the image below (marked with a red cross), must not be used. Otherwise, the function is impaired, and damage may occur.



Symbols

The following table describes the symbols that may be printed on the packaging label. Please refer to the packaging label for the applicable symbols related to the product.

Symbol, Symbol, Pictogramme, Simbolo, Símbolo, Símbolo,	Symbol-Beschreibung, Symbol Description, Description du symbole, Legenda simbolo, Descripción del símbolo, Descrição do símbolo,	Symbol-Quelle, Symbol source, Source du symbole, Fonte simbolo, Origen del símbolo, Origem do símbolo,
 URL: ifu.zeramex.com	Gebrauchsanweisung beachten. Link zur elektronischen Gebrauchsanweisung : Consult instructions for use. Please follow the link to the e-IFU : Consulter le mode d'emploi. Veuillez suivre le lien vers le mode d'emploi électronique : Consultare le istruzioni per l'uso. Seguire il link per accedere alle istruzioni per l'uso : Consulte las instrucciones de uso. Siga el enlace a las instrucciones de uso electrónicas: Consulte as instruções de utilização. Siga a hiperligação para o ficheiro das instruções de utilização : URL: ifu.zeramex.com	ISO 15223-1
	Achtung, Caution, Attention, Attenzione, Atención, Cuidado.	ISO 15223-1
	Hersteller, Manufacturer, Fabricant, Produttore, Fabricante, Fabricante	ISO 15223-1
	Herstelldatum, Date of manufacture, Date de fabrication, Data di produzione, Fecha de fabricación, Data de fabricação	ISO 15223-1
	Mit der CE-Kennzeichnung erklärt der Hersteller, dass das Produkt den geltenden Anforderungen genügt, die in den EU-Harmonisierungsrechtsvorschriften über ihre Anbringung festgelegt sind. <i>Wo zutreffend: Angabe der Kennnummer der Benannten Stelle.</i> CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EC legislation. <i>Where applicable: The identification number of the Notified Body shall follow this symbol.</i> Le marquage CE est la déclaration du fabricant que le produit satisfait les exigences de la législation CE applicable <i>Le cas échéant : Le numéro d'identification de l'organisme notifié doit suivre ce symbole.</i> Il marchio CE costituisce la dichiarazione da parte del produttore che il prodotto soddisfa i requisiti della legislazione CE applicabile. <i>Se applicabile: Il numero di identificazione dell'organismo notificato deve seguire questo simbolo.</i> La marca CE es la declaración del fabricante de que el producto cumple los requisitos de la legislación CE aplicable. <i>Cuando proceda: el número de identificación del organismo notificado debe seguir a este símbolo.</i> A marca CE é a declaração do fabricante de que o produto cumpre os requisitos da legislação aplicável da CE. <i>Caso se aplique: o número de identificação do Organismo Notificado deve aparecer a seguir a este símbolo.</i>	MDR (EU) 2017/745
	Medizinprodukt, Medical Device, Dispositifs médicaux, Dispositivo medico, Dispositivo médico, Dispositivo médico.	ISO 15223-1
	Eindeutige Gerätekennung, Single product code, Numéro d'identification unique, Identificazione unica del dispositivo, Identificador único del producto, Identificador único do dispositivo	ISO 15223-1
	EU Bevollmächtigter, Authorized representative in the European Community, Représentant européen, European representative, Representante europeo, Representante europeu	ISO 15223-1
	EU Importeur, European importer (Indicates the entity importing the medical device into the European Community), Importateur européen, Importatore europeo, Importador europeo, Importador europeu	CeramTec Schweiz GmbH
	Artikelnummer, Catalogue number, Code article, Codice articolo, Número de artículo, Número do artigo	ISO 15223-1
	Lotnummer, Lot/batch number, Numéro de lot, Numero di lotto, Número de lote, Número de lote/batch	ISO 15223-1
	Einmalgebrauch, nicht wiederverwenden. Do not re-use, onetime use, Usage unique, ne pas réutiliser, Prodotto monouso, non riutilizzare. Un solo uso, no reutilizar. Uso único, não reutilize, Não use o dispositivo se a embalagem estiver danificada.	ISO 15223-1
	Unsteril. Non-sterile. Non stérile. Non sterile. No estéril. Não esterilizado.	ISO 15223-1
	Bei beschädigter Verpackung nicht verwenden. Do not use if packaging is damaged. Ne pas utiliser si l'emballage est endommagé. Non utilizzare se la confezione è danneggiata. No usar si el envase está dañado.	ISO 15223-1
	Vor direkter Sonneneinstrahlung schützen. Keep away from sunlight. Éloigner de la lumière solaire directe. Tenere lontano dalla luce solare diretta. Mantener alejado de la luz solar directa. Mantenha afastado da luz solar.	ISO 15223-1
	Trocken lagern, Keep dry, Conserver au sec, Conservare in luogo asciutto, Mantenga seco, Manter em local seco.	ISO 15223-1
	Gemäss US-Bundesgesetz darf dieses Produkt nur an einen Zahnarzt oder auf dessen Bestellung verkauft werden. CAUTION! United States Federal Law restricts this device to sale to, or on the order of, a licensed dentist or physician. Les lois fédérales américaines limitent ce dispositif à la vente par ou à la demande d'un professionnel dentaire. Il Ministero della Salute impone la vendita o l'utilizzo di questi dispositivi solo ai medici o su prescrizione medica. Según la legislación federal, este producto solo puede ser vendido por un profesional dental o por orden del mismo. A lei federal dos EUA restringe a venda deste dispositivo a um profissional de medicina dentária ou sob prescrição do mesmo.	21 CFR 801.109(b)(1)